

# Antibiotic treatment

AR Aspen Reese LD Lawrence A David

Updated date: Aug 2, 2021

 An abbreviated version of this protocol was published in eLIFE in Jun 2018

Antibiotic-induced changes in the microbiota disrupt redox dynamics in the gut

DOI: 10.7554/eLife.35987

## Detailed protocol

Mice were orally gavaged daily for five days with either 0.25 ml autoclaved deionized water or 0.25 ml of an antibiotic cocktail, each administered with a sterile oral gavage needle, one per mouse. The antibiotic cocktail consisted of ampicillin 1 mg/ml, vancomycin 5 mg/ml, neomycin 10 mg/ml, and metronidazole 10 mg/ml made up in autoclaved deionized water in excess of daily needs. Fresh antibiotic cocktails were prepared every day. For more information on the antibiotic cocktail protocol see Reikvam et al. 2011 PLoS One.

**How to cite:** (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Reese, A. and David, L. (2021). Antibiotic treatment. Bio-protocol Preprint. [bio-protocol.org/prep1325](https://bio-protocol.org/prep1325).
2. Reese, A. T., Cho, E. H., Klitzman, B., Nichols, S. P., Wisniewski, N. A., Villa, M. M., Durand, H. K., Jiang, S., Midani, F. S., Nimmagadda, S. N., O'Connell, T. M., Wright, J. P., Deshusses, M. A. and David, L. A. (2018). Antibiotic-induced changes in the microbiota disrupt redox dynamics in the gut. eLIFE. DOI: [10.7554/eLife.35987](https://doi.org/10.7554/eLife.35987)

**Copyright:** Content may be subjected to copyright.